EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER

63048723

PUBLICATION DATE

01-03-88

APPLICATION DATE

18-08-86

APPLICATION NUMBER

61193537

APPLICANT :

NEC KANSAI LTD;

INVENTOR :

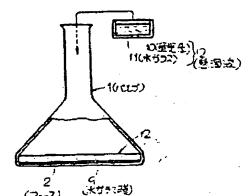
METSUGI YOSHIHIKO;

INT.CL.

H01J 9/22

TITLE

FORMATION OF FLUORESCENT FILM



ABSTRACT :

PURPOSE: To facilitate the production process control and to stabilize the quality of a product by forming water glass inside the bulb face in advance in forming a phosphor film by the precipitation method.

CONSTITUTION: A small amount of water glass such as potassium silicate or lithium silicate is applied in a bulb I, with its face 2 faced downward, a thin water glass film 9 is formed inside the face 2, and the excess liquid is discharged from the bulb 1. Next, a suspension 12 consisting of a phosphor 10 and water glass 11 is applied, thereby the phosphor 10 is electrostatically repulsed against the film 9 and is precipitated while being scattered, and a phosphor film with a uniform thickness is formed on the whole inside of the face 2. The metallic component of the non-luminescent material of potassium or lithium is somewhat left in the phosphor film, but this metallic component is easy to be permeated with electron rays or an electron beam, and the luminescence is made almost uniform. In this production, it is easy to control the temperature and time, and a stable product can be produced.

COPYRIGHT: (C)1988,JPO&Japio